

EPA REGISTRATION NUMBER 66330-57 – VOL. 2



Resource LabelGroup, LLC
901.795.2111
901.795.2347 fax
4111 Viscount Ave.
Memphis, TN 38118

Proof Approval

If you have any questions, please contact
CHARISSE WELLBORN

DATE 10-22-07	ATTENTION WANDA KOONCE	COMPANY ARYSTA LIFESCIENCE		
LABEL DESCRIPTION MIDAS 50:50 (12-page stitched)		LABEL SIZE 6-3/4 x 7-1/4	SHAPE KK	EST --
COLORS BLACK, BLUE 281, YELLOW 389, PURPLE 526		UPC NUMBER NONE	REWIND	

PLEASE EXAMINE CAREFULLY THE INFORMATION ON THIS PROOF APPROVAL. THE CONTENT AND ACCURACY OF THIS INFORMATION IS YOUR RESPONSIBILITY. YOUR LABELS WILL BE PRINTED EXACTLY AS YOU SPECIFY ON THIS PROOF APPROVAL. PLEASE VERIFY AND SIGN THIS PROOF APPROVAL. NO PRODUCTION WILL BEGIN WITHOUT SIGNED APPROVAL.

OKAY AS IS: _____

Signature of Authorized Customer Representative

Date

CHANGES: _____

(Please mark below)

Signature of Authorized Customer Representative _____ Date _____

RESTRICTED USE PESTICIDE

DUE TO ACUTE TOXICITY

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

Midas[®] 50:50

Only For Pre-Plant Fumigations of Fields Intended for Commercial Production of Listed Crops and Field-Grown Ornamentals, for the Control of Soil-Borne Pests Including Weed Seeds, Nematodes, Insects, and Diseases

ACTIVE INGREDIENTS:

Iodomethane	49.90%
Chloropicrin	49.75%
OTHER INGREDIENTS:	0.35%

TOTAL: 100.00%

One gallon weighs 15.9 pounds
(7.93 pounds Iodomethane and 7.91 pounds Chloropicrin).

**KEEP OUT OF REACH
OF CHILDREN
DANGER / PELIGRO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

SEE INSIDE BOOKLET FOR ADDITIONAL
PRECAUTIONARY STATEMENTS

For Product Information Call: 1-866-761-9397

Manufactured for:
Arysta LifeScience North America Corporation
15401 Weston Parkway, Suite 150 • Cary, NC 27513

EPA Reg. No. 66330-57

EPA Est. No. 29516-NC-001(A)

29516-FL-004(B)

Superscript corresponds to the first letter of the lot number for this package

AD101107
20788

NET CONTENTS: _____ **LBS.**

FIRST AID

If in eyes	<ul style="list-style-type: none">Hold eye open and rinse slowly and gently with water for 15-20 minutes.Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing.Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none">Take off contaminated clothing.Rinse skin immediately with plenty of water for 15-20 minutes.Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none">Move person to fresh air.If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible.Call a poison control center or doctor for further treatment advice.
If swallowed	<ul style="list-style-type: none">Call a poison control center or doctor immediately for treatment advice.Have person sip a glass of water if able to swallow.Do not induce vomiting unless told to do so by a poison control center or doctor.Do not give anything to an unconscious person.

HOT LINE NUMBERS

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE CALL:
1-866-303-6952 or 1-651-632-8946

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage. Symptoms of overexposure may include irritation to eyes, skin, and respiratory system, shortness of breath, nausea, vomiting, dizziness, ataxia, slurred speech, drowsiness, blurred vision, staggering gait and mental imbalance, with probable recovery after period of no exposure. Treatment is symptomatic.



Arysta LifeScience™

NOT REVIEWED
In Accordance with PR Notice 82-2
Based on Draft Labeling Dated 10-11-09

DATE 10-17-07	ATTENTION WANDA KOONCE	COMPANY ARYSTA LIFESCIENCE
ITEM DESCRIPTION MIDAS 50:50 (12-page stitched)		

OKAY AS IS: _____

Signature of Authorized Customer Representative

Date

CHANGES: _____

(Please mark below)

Signature of Authorized Customer Representative _____ Date

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

Danger. Corrosive. Causes irreversible eye damage. Corrosive to skin. Causes skin burns. May be fatal if inhaled or swallowed. Harmful if absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breathe vapor. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

SPECIAL NOTE: This product contains chloropicrin, a poisonous liquid or vapor. Inhalation of vapors may be fatal. Chloropicrin is readily identified by smell. Exposure to very low concentrations of vapor will cause irritation of eyes, nose and throat. Continued exposure after irritation is evident or higher concentrations may cause painful irritation to the eyes or temporary blindness. Liquid will cause chemical burns to skin of eyes. Do not get on skin, in eyes, or on clothing. Chloropicrin fumigant has the capacity to cause marked irritation to the upper respiratory tract and is a strong lachrymator (tear producing eye irritant). Low concentrations, below those necessary to cause serious systemic intoxication, are capable of causing severely painful eye irritation, hence will not be voluntarily tolerated. However, the effect may be so powerful that a person may become temporarily blinded and panic-stricken and that in turn may lead to accidents.

AIR CONCENTRATION LEVEL

Air concentrations of chloropicrin are measured with direct reading colorimetric detector devices, such as Kitagawa tubes, certified for chloropicrin at 0.1 to 16 ppm. Persons involved in the application of MIDAS 50:50 or in reentry into treated fields must wear an air-purifying respirator when required by the restrictions given in the AGRICULTURAL USE REQUIREMENTS section below. In case of spills or leaks, additional respiratory protection must be worn as detailed under Spill and Leak Procedures.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers (to include tractor drivers, co-pilots, shovelers, and tarp monitors) **must wear:**

- Loose fitting or well ventilated long-sleeved shirt and long pants.
- Shoes plus socks.
- Full face shield or safety glasses with brow, temple and side protection is required. DO NOT wear goggles.
- An air-purifying respirator with a 3M Brand No. 60928 cartridge filter, or equivalent (MSHA/NIOSH approved number prefix TC-23C). For tractor drivers and co-pilots the following can be used in lieu of an air-purifying respirator:
 - o A tractor equipped with a working-area air-fan dilution system consisting of a ducted fan/blower which provides air flow to the breathing zone of the tractor driver and co-pilot. The fan/blower must be mounted so that the fan/blower intake is at least 126 inches from the ground, and the fan/blower must be capable of operating at a minimum of 1,600 revolutions per minute and producing a minimum flow rate of 3,000 cubic feet of air per minute.

Other handlers (to include planters, hole punchers, tarp cutters, tarp removers, and tarp remover drivers) **must wear:**

- Loose fitting or well ventilated long-sleeved shirt and long pants.
- Shoes plus socks.
- Full face shield or safety glasses with brow, temple and side protection is required. DO NOT wear goggles.

ENGINEERING CONTROL REQUIREMENTS

MIDAS 50:50 must be transferred through connecting hoses, pipes, and/or couplings sufficiently tight to prevent workers or other persons from coming in contact with the liquid.

- All hoses, piping, and tanks used in connection with this product shall be of a type appropriate for use under the pressure and vacuum conditions to be encountered.
- External sight gauges, if applicable, shall be equipped with valves so that pipes to sight gauge can be shut off in case of breakage or leakage.
- The mechanical transfer system must be adequate to make necessary measurements of the pesticide being used.
- Shut-off devices must be installed on the exit end of all cylinder connections and at all disconnect points to prevent leakage of product when the transfer is stopped and hose is removed or disconnected.
- The pressure in hoses used to move the product must not exceed the manufacturer's maximum pressure specifications.
- Check equipment to ensure good condition and integrity prior to each use.

DATE 10-17-07	ATTENTION WANDA KOONCE	COMPANY ARYSTA LIFESCIENCE
ITEM DESCRIPTION MIDAS 50:50 (12-page stitched)		

OKAY AS IS: _____

Signature of Authorized Customer Representative

Date

CHANGES: _____

(Please mark below)

Signature of Authorized Customer Representative

Date

User Safety Requirements

- Do not wear jewelry, gloves, goggles, tight clothing or any rubber protective clothing/boots that can trap iodomethane or chloropicrin vapors against your skin. Iodomethane and chloropicrin vapors can be trapped inside clothing and cause skin injury.
- Remove all clothing that comes in contact with liquid material at once.
- Aerate all affected clothing thoroughly outdoors prior to washing with hot water and detergent.
- Discard any clothing or absorbent materials (e.g. leather), that have been drenched or heavily contaminated with this product. Do not reuse them.
- Respirator Requirements: When a respirator is required for use with this product, the following criteria must be met consistent with the Worker Protection Standard: (a) Cartridges or canisters must be replaced daily or when odor or irritation from this product becomes apparent, whichever is sooner; (b) Respirators must be fit-tested and fit-checked using a program that conforms to OSHA's requirements (described in 29 CFR Part 1910.134); (c) Respirator users must be trained using a program that conforms to OSHA's requirements (described in 29 CFR Part 1910.134); (d) Respirator users must be examined by a qualified medical practitioner to ensure physical ability to safely wear the style of respirator to be worn.
- Follow PPE manufacturer's instructions for cleaning/maintaining protective eyewear and respirators.

USER SAFETY RECOMMENDATIONS

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside, then wash skin thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water or to areas where surface water is present or to inter-tidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash waters.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat, open flames, or sparking electrical equipment. Do not use application devices containing natural rubber, aluminum, magnesium or their alloys.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use carefully before applying this product.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only Certified Applicators (certified by both the state and Arysta) trained in the proper handling, worker protection, and application of MIDAS 50:50 soil fumigant and workers under their direct supervision may be present in the treatment area during application. An Arysta and state Certified Applicator must be on site and within the line of sight to observe handlers during the application. Handling tasks to be performed under the direct supervision of a Certified Applicator include, but are not limited to the tractor driver, co-pilot, tarp dispenser and shoveler. All such handlers must have appropriate protective equipment, as described in the PERSONAL PROTECTIVE EQUIPMENT section. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

Buffer Zone

The area adjacent to the treated area is referred to as the buffer zone. The buffer zone shall extend from the edge of the treated area in all directions. See Buffer Zone Table. The minimum buffer zone distance shall be 25 feet.

The Certified Applicator supervising the soil fumigation is responsible for the following:

1. Calculating the appropriate size of the buffer zone that must be maintained during the first 48 hours following the end of the application;
2. Establishing and maintaining the buffer zone during the 48 hours following the end of the application; and
3. Ensuring that unprotected workers and bystanders do not enter the buffer zone during the 48 hours following the end of the application. Exception: Unprotected workers and bystanders may travel through (but not engage in any activity in) the buffer zone during the 48-hour period, provided their total exposure time in any 24-hour period is 15 minutes or less. However, travel by unprotected workers or bystanders through the fumigated area itself is prohibited during the entire 5-day Entry-Restricted period. Handlers protected with Personal Protective Equipment (PPE) required for early entry into a treated area may work in buffer zones.
4. Ensuring application site has a distinctive buffer zone. The buffer zone of the field to be treated cannot overlap the buffer zone of another field treated within the last 48 hours.
5. The Certified Applicator supervising the soil fumigation must document how the buffer zone was determined, the location of unoccupied sensitive sites within 1/4 mile of the fumigated area, and how persons in occupied structures located within the buffer zone were protected. These records must be maintained by the Certified Applicator and by the owner/operator of the fumigated site for at least two years following the fumigation and must be made available, upon request to Federal, State, Tribal, and local enforcement personnel.

DATE 10-17-07 (b)	ATTENTION WANDA KOONCE	COMPANY ARYSTA LIFESCIENCE
ITEM DESCRIPTION MIDAS 50:50 (12-page stitched)		

OKAY AS IS: _____

Signature of Authorized Customer Representative

Date

CHANGES: _____

(Please mark below)

Signature of Authorized Customer Representative _____ Date

Determining Buffer Zone Distance

- Determine the size of the buffer zone using the following Buffer Zone Table.
- The size of the buffer zone will be dependant on the following three factors:
 - o The number of field acres that are being treated with MIDAS 50:50.
 - o The pounds of MIDAS 50:50 that are being applied per treated acre.
 - o Buffer zone reduction credits.

Buffer Zone Table

MIDAS 50:50 Application Rate (Lbs per Treated Acre) ⁴	SIZE OF FIELD IN ACRES (Buffer zone distance in feet) ^{1, 2}							
	Up to 5 Acres	6 - 10 Acres	11-15 Acres	16- 20 Acres	21-25 Acres	26-30 Acres	31-35 Acres	36-40 ³ Acres
125	25	40	75	110	130	145	165	180
150	25	45	90	130	155	175	195	215
175	25	50	100	150	175	200	225	250
200	30	60	120	175	205	235	265	290
210	30	60	120	180	210	240	270	300
240	35	70	140	210	245	280	315	345
300	45	90	175	260	305	345	390	430
350	50	100	200	300	350	400	450	500

1. For rates not listed on this table, use the buffer zone for the next highest rate, or use the following calculation to determine the exact buffer zone:

$$\text{Buffer Zone for Application Rate Not Listed} = \frac{\text{Known Buffer Zone on Table} \times \text{Application Rate Not Listed}}{\text{Rate of Application for Known Buffer Zone}}$$

2. Buffer Zone Reduction Credits:

Reduce buffer zone by 10% for each factor listed below:

- Use of flat fume / broadcast application
- Use of High Barrier films. High Barrier films for which credit can be applied must be on an Arysta approved list. Examples of Arysta approved films are Canslit Brand Metalized 1.3 ml, Pliant Blockade® VIF 1.25 ml, and Pliant Metalized 1.0-1.25.
- Application to soils having >3% organic matter. Refer to the USDA or USGS Soil Survey Maps for the treated area that identify the range of organic matter and / or a documented soil survey report that lists range of % organic matter for the treated area. Collection of samples for analysis of soil in the treated area should follow procedures as per USDA's Natural Resource Conservation Services methods. Information on soil sampling can be found at www.soil.usda.gov.

For example, if the Buffer Zone is 50 feet and the application qualifies for a buffer zone reduction credit such as use of Metalized film, then the buffer zone can be reduced by 10%, i.e. reduced by 5 feet based on the following calculation: 50 ft - (50 ft X 10%) = 45 feet.

If the application qualifies for two buffer zone reduction credits such as use of a high barrier film and soil with >3% organic matter, then the buffer zone can be reduced by 20%, i.e. reduced by 10 feet based on the following calculation: 50 ft - (50 ft X 20%) = 40 feet.

3. Applications are limited to 40 contiguous acres or less per day on a single site.

4. For raised bed applications, the treated area is the raised bed not the untreated furrows. As an example, if a raised bed field is 50% raised bed (treated) and 50% furrow (untreated), and 350 lbs of MIDAS 50:50 is applied to the field, then the effective application rate to the treated raised bed is 350 lbs per treated acre; and that is the rate that would determine the buffer zone.

Note: Minimum allowable buffer zone is 25 feet regardless of buffer zone reduction credits.

Buffer Zone for Pre-Plant Deep Injection Auger

- 25 feet if the application rate is less than 100 lbs MIDAS 50:50 per acre.
- 50 feet if application rate is 100 to 249 lbs MIDAS 50:50 per acre, and
- 100 feet if the application rate is 250 to 350 lbs MIDAS 50:50 per acre.

DATE 10-17-07	ATTENTION WANDA KOONCE	COMPANY ARYSTA LIFESCIENCE
ITEM DESCRIPTION MIDAS 50:50 (12-page stitched)		

OKAY AS IS: _____

Signature of Authorized Customer Representative

Date

CHANGES: _____

(Please mark below)

Signature of Authorized Customer Representative

Date

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), restricted entry intervals, and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

Entry Restrictions

Entry into the treated area (including early entry that would otherwise be permitted under the WPS) by any person, other than a correctly trained and equipped handler who is performing a task that is permitted by this labeling, is PROHIBITED from the start of the application until 5 days after application and the air concentration of chloropicrin is measured to be less than 0.1 ppm. Early entry under the WPS is limited to tarp inspection and repair. Non-handler entry is prohibited while tarps are being removed.

See the Buffer Zone section of the label for additional Entry Restrictions.

Notification at Entrances to Treated Areas

Notify all workers of the fumigation verbally and by posting warning signs at all likely entrances to the treated area for no less than 5 days after application. The signs must bear the skull and crossbones symbol and state:

- (1) "DANGER/PELIGRO"
- (2) "Areas under fumigation, DO NOT ENTER/NO ENTRE"
- (3) Iodomethane and Chloropicrin Fumigants In Use
- (4) Date and time of fumigation
- (5) MIDAS 50:50
- (6) Name, address, and telephone number of the Certified Applicator in charge of the application.

Post these fumigant warning signs for treated areas instead of the WPS signs for these applications but follow all WPS requirements pertaining to location, legibility, size and timing of posting and removal.

PPE for Reentry during the Entry-Restricted Period

The PPE required for reentry during the entry-restricted period are:

- Loose fitting or well ventilated long-sleeved shirt and long pants.
- Shoes plus socks.
- An air-purifying respirator with a 3M Brand No. 60928 cartridge filter, or equivalent (MSHA/NIOSH approved number prefix TC-23C).

GENERAL INFORMATION AND INSTRUCTIONS

This fumigant is a highly hazardous material. All uses of this fumigant are covered under the Worker Protection Standard, and must be conducted in accordance with all of the requirements of the Worker Protection Standard (40 CFR Part 170). It is a restricted use pesticide that must only be used by or under the direct supervision of individuals trained and certified in its proper use. Before using, read the entire label and follow all use directions and precautions. All persons working with this fumigant must be knowledgeable about the hazards and trained in the use of required air-purifying respirator equipment and detector devices, emergency procedures and proper use of the fumigant.

GENERAL USE PRECAUTIONS

- Follow all local government instructions for posting of treated areas and post all treated areas with warning signs.
- Comply with all local ordinances and regulations.
- Do not apply within 1/4 mile of any occupied sensitive site such as schools, day care facilities, nursing homes, hospitals, prisons, and playgrounds.
- Applications are limited to 40 contiguous acres or less per day on a single site.
- Do not apply this product in the presence of ground fog, inversion layers or when the potential for an inversion layer is likely to occur as this may result in product drift outside the treated area. A smoke generator can be used to indicate the presence of an inversion layer if the smoke column does not rise in a vertical pattern. In addition, consult the local weather forecast in the surrounding region for reports of expected inversion layers the day of application and within the 24 hour period following applications of MIDAS 50:50.
- Never fumigate alone. A minimum of two trained employees must be present during handling and application of soil fumigants.
- Certified Applicators are responsible for providing information to all workers involved with the fumigation about precautions and procedures in the safe handling, worker protection and application of MIDAS 50:50 for soil fumigation.
- Additional instructions must be made available to workers in the mechanical operation of the tractor and how to safely work with the operator while fumigating.

DATE 10-17-07 (b)	ATTENTION WANDA KOONCE	COMPANY ARYSTA LIFESCIENCE
ITEM DESCRIPTION MIDAS 50:50 (12-page stitched)		

OKAY AS IS: _____

Signature of Authorized Customer Representative Date

CHANGES: _____

(Please mark below) Signature of Authorized Customer Representative Date

- Always handle this product in the open, with all workers positioned "upwind" from the container and/or where there is adequate ventilation.
- Check the fumigation system for leaks or worn out equipment prior to soil injection.
- When fumigating from a tractor, it is required that 5 gallons of water be carried on the tractor and readily available for rinsing and cleaning purposes. An additional 5 gallons of water must be available in the service truck. This water must be potable and in containers marked "Decontamination water not to be used for drinking".
- For broadcast/flat fume applications, keep all pets, livestock and other domestic animals out of the treated areas until tarps have been removed.
- For raised bed applications, keep all pets, livestock and other domestic animals out of the treated areas for 5 days and until the air concentration for chloropicrin is less than 0.1 ppm at the edge of the treated area. Most raised bed applications will not result in tarp removal.
- Tarp removal requires a minimum of two trained employees to be present during the operation. Non-handler personnel are prohibited from being present during tarp removal.
- See AGRICULTURAL USE REQUIREMENTS box for details regarding posting and placement of warning signs.
- Do not allow entry by unprotected persons into the fumigated area until the re-entry signs are removed. Such signs must only be removed when the air concentration of chloropicrin is measured to be less than 0.1 ppm at the edge of the treated area and no sooner than 5 days following application. Signs must remain legible during entire posting period. Also, do not cut tarps for planting until these conditions have been met.
- To determine whether aeration is complete, each fumigated site must be tested and shown to contain less than 0.1 ppm chloropicrin in the air space around the treated site as determined by 3 consecutive measurements taken at the down wind edge of the treated site at least 15 minutes apart.

SPILL AND LEAK PROCEDURES

- Cease all operations if any leak develops in the fumigation system.
- Evacuate everyone from the immediate areas of the spill or leak.
- Approach the area from the upwind side. Work upwind to repair leak(s), if possible.
- For entry into the area to correct the problem, trained personnel must wear loose fitting or well ventilated long-sleeved shirt and long pants, shoes plus socks and either (a) a supplied-air respirator (MSHA/NIOSH approval number prefix TC-19C) or (b) a self-contained breathing apparatus (SCBA)(MSHA/NIOSH approval number prefix TC-13F).
- Only correctly trained and PPE-equipped handlers are permitted to enter. Do not permit entry into the spill or leak area by any other person until the concentration of chloropicrin is measured to be less than 0.1 ppm as specified in section above.
- Allow spilled fumigant to evaporate or to absorb onto vermiculite, dry sand, earth, or similar absorbent material. Such material should be disposed of on site or at an approved disposal facility.
- Contaminated soil, water and other cleanup debris may be hazardous waste. Report any spill that exceeds 200 lbs (12.6 gallons of product) to the National Response Center at 1-800-424-8802.

PROCEDURES PRIOR TO, DURING AND AFTER ALL APPLICATIONS

Control of Soil Borne Pests: MIDAS 50:50 controls soil-borne pests including nematodes, insects, weed seeds, and diseases.

Midas 50:50 will control the following pests when present in soil at the time of treatment:

Weed Seeds, including broadleaf weeds such as nutsedge, pigweed, broomrape and lambsquarters, and grasses such as bermudagrass, and annual bluegrass. Effectiveness against hard seed weeds, such as mallow, dodder, morning glory, and certain leguminous weeds may be variable.

Plant-parasitic Nematodes, such as root-knot, root lesion (meadow), cyst, citrus, burrowing, false root-knot, lance, spiral, ring, sting, stubby root, dagger, awl, sheath and stung (stylet) nematodes.

Soil-borne Insects, such as wireworms, cutworms, grubs, rootworms, ants and garden symphylans.

Soil-borne Diseases, such as *Verticillium*, *Pythium*, *Rhizoctonia*, *Phytophthora*, and *Fusarium*.

MIDAS 50:50 is not to be used as a preventative treatment for pests that may be introduced after the fumigant has been applied and/or tarps removed. To reduce the potential for the re-introduction of pests (nematodes, weed seed and disease); avoid the use of irrigation water, transplants or equipment that could carry pests into the planting area. Avoid moving infested soil back into the treated area through cultivation or other means.

Soil Preparation: The soil should be worked to the depth that is desirable for the fumigant to penetrate. Plant refuse should be worked into the soil and allowed enough time to decompose prior to treatment. Little or no plant refuse should be present on soil surface. Prior to application, the soil must be sufficiently moistened to allow seeds to swell (imbibe) in preparation for germination.

DATE 10-17-07	ATTENTION WANDA KOONCE	COMPANY ARYSTA LIFESCIENCE
ITEM DESCRIPTION MIDAS 50:50 (12-page stitched)		

OKAY AS IS: _____

Signature of Authorized Customer Representative Date

CHANGES: _____

(Please mark below) Signature of Authorized Customer Representative Date

Prior to All Applications:

- Ensure that application equipment does not contain components made of natural rubber, aluminum, magnesium or their alloys.
- Soil in the treatment area should be reasonably free of trash and in good tilth prior to treatment.
- Do not apply to wet or cold soils (<55°F at a depth of 8 inches).

During All Applications:

- Immediately cover treated areas with a plastic tarpaulin for a minimum of 5 days.
- Allow time for complete voiding of material in the buried shanks following closure of the shutoff valve and before removing shanks from the soil.
- In the event that trash is pulled up with the shanks after completing a treatment pass, the trash must be covered with plastic film and the edges of the film buried under at least 4 inches of compacted soil before making the next pass through the field.
- Do not change cylinders when the fumigant system is under pressure. Change cylinders with all cylinder valves in the off position.

Following All Applications:

- To minimize the potential for crop injury, allow the fumigant to dissipate before planting a crop. Seeds may be used as a bioassay to determine if MIDAS 50:50 is present in the soil at concentrations sufficient to cause plant injury. DO NOT PLANT if the odor of the chloropicrin is detectable. See fumigation tables for planting requirements specific to the different application methods.
- Fumigation of highly acidic soils or those high in organic matter can cause ammonia toxicity to plants and or elevated levels of soluble salts in the soil causing phytotoxicity. Analyze soil following fumigation and fertilize as indicated. Avoid those fertilizers using ammonium salts.

MIDAS 50:50 PRE-PLANT FIELD FUMIGATION METHODS

Fumigation with MIDAS 50:50 shall only be performed in accordance with the following three application techniques: 1) Raised Bed Application, 2) Broadcast/Flat Fume Application, or 3) Deep Injection Auger Probe Application (stone fruit, nut trees, vines, and field-grown ornamentals only). Application methods and rates of application for each of these methods are discussed in detail below.

RAISED BED APPLICATION

- Use tractor mounted chisels spaced no more than 12 inches apart and at a depth of no less than 6 inches below the soil surface. The treated ground must be sealed using either:
 - o Closing shoes and compaction roller: The closing shoes shall cover the chisel marks with soil just ahead of the compaction roller, and the tarpaulin shall be laid down simultaneously (with fumigant injection) by tarpaulin-laying equipment mounted on the application tractor; or
 - o Bed shaper: The chisels shall be placed with the injection point under the bed shaper, and the tarpaulin shall be laid down simultaneously (with fumigant injection) by tarpaulin-laying equipment mounted on the application tractor; or
 - o Combination bed former and bed shaper: The chisels shall be placed between the bed former and the bed shaper. The tractor with the tarpaulin-laying equipment shall immediately follow the application tractor.
- Injection depth of between 6 and 15 inches. The injection depth in preformed beds must not be below the bed furrow.
- Injection spacing of 12 inches or less typically performed with a multiple shank applicator.
- Planting shall not occur for at least 10 days after application (refer to RAISED BED SOIL FUMIGATION TABLE below).

DATE 10-17-07	ATTENTION WANDA KOONCE	COMPANY ARYSTA LIFESCIENCE
ITEM DESCRIPTION MIDAS 50:50 (12-page stitched)		

OKAY AS IS: _____

Signature of Authorized Customer Representative Date

CHANGES: _____

(Please mark below) Signature of Authorized Customer Representative Date

Application Rates for Raised Bed Fumigation: Rates in the table below are given in pounds of MIDAS 50:50 per broadcast acre. The amount of product applied will be proportionate to the row spacing and width of the raised bed. To calculate the amount of product to be applied, multiply the application rate in lbs MIDAS 50:50/broadcast acre by the appropriate modifier from the Field Rate Modifier Table provided below.

RAISED BED SOIL FUMIGATION TABLE		
CROP	MIDAS 50:50 Per Broadcast Acre ¹	Time Between Application and Planting
Field-Grown Ornamentals Peppers Strawberries Tomatoes	Standard Film 200 - 350 lbs/Broadcast Acre (12.6 - 22 gal/Broadcast Acre)	10 - 14 days ^{2, 3}
	Highly Retentive Film 150 - 200 lbs/Broadcast Acre (9.4 - 12.6 gal/Broadcast Acre)	14 - 21 days when using highly retentive film ^{4, 5}

NOTE:

- ¹ For fields infested with Nutsedge and Malva, apply a minimum of 300 lbs/acre (18.9 gal/acre) of MIDAS 50:50.
- ² Use the longer planting restriction period under conditions of high soil moisture, heavy soils, or rain or persistence of chloropicrin odor in the soil.
- ³ If standard tarpaulins are NOT removed, planting can occur a minimum of 10 days after application, which includes the minimum 24 hours of aeration once the tarps have been cut. If tarpaulins are not cut or aerated prior to planting, the odor of chloropicrin must not be detectable. If odor of chloropicrin is detectable, wait a minimum of 14 days before planting to avoid possible plant injury.
- ⁴ Use of highly retentive films (e.g. VIF and approved Metallic) will require a rate reduction of up to 40-50% of the maximum use rate. Contact your Arysta LifeScience representative for film selection and rate reduction recommendations and approved films.
- ⁵ If highly retentive films are not removed, planting can occur a minimum of 14 days after application, which includes the minimum 24 hours of aeration once the tarps have been cut. If the tarpaulins are not cut or aerated, prior to planting, the odor of chloropicrin must not be detectable. If odor of chloropicrin is detectable, wait a minimum of 21 days before planting to avoid possible plant injury.

Field Rate Modifier Table for Raised Bed Applications

Row Spacing (inches)	Bed Width (inches)	Field Rate Modifier
72	40	0.55
72	36	0.50
72	32	0.44
72	30	0.42
72	28	0.39
66	32	0.48
66	30	0.45
66	28	0.42
66	24	0.36
60	30	0.50
60	28	0.47
48	28	0.58

DATE 10-17-07 (b)	ATTENTION WANDA KOONCE	COMPANY ARYSTA LIFESCIENCE
ITEM DESCRIPTION MIDAS 50:50 (12-page stitched)		

OKAY AS IS: _____

Signature of Authorized Customer Representative Date

CHANGES: _____

(Please mark below) Signature of Authorized Customer Representative Date

BROADCAST / FLAT FUME APPLICATION

- Use tractor mounted chisels spaced no more than 12 inches apart and at a depth of 6 to 15 inches below the soil surface.
 - Closing shoes and compaction roller: The treated ground must be sealed using closing shoes and compaction roller. The closing shoes shall cover the chisel marks with soil just ahead of the compaction roller, and the tarpaulin shall be laid down simultaneously (with fumigant injection) by tarpaulin-laying equipment mounted on the application tractor.
- Planting shall not occur for at least 10 days after application (refer to BROADCAST / FLAT FUME APPLICATION TABLE).
- This product may be applied by broadcast/flat fume application with standard polyethylene films or highly retentive films, as they become available. Contact your Arysta LifeScience North America representative for information on film selection and rate reduction recommendations.

Application Rates For Broadcast/Flat Fumigation:

BROADCAST/FLAT FUME APPLICATION TABLE		
CROP	MIDAS 50:50 Per Acre ¹	Time Between Application and Planting
Field-Grown Ornamentals Peppers Strawberries Tomatoes Turf	200 - 350 lbs/Acre (12.6 - 22 gal/Acre)	10 - 14 days
Stone Fruits (Apricot, Sweet Cherry, Tart Cherry, Nectarine, Peach, Plum, Chickasaw Plum, Damson Plum, Japanese Plum, Plumcot, Fresh Prune) Tree Nuts (Almond, Beech Nut, Brazil Nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (Hazelnut), Hickory Nut, Macadamia Nut (Bush Nut), Pecan, Pistachio, Black Walnut, English Walnut) Vines (Table, Raisin and Wine Grapes)	240 - 350 lbs/Acre (12.6 - 22 gal/Acre)	10 - 14 days ²
Nurseries (including strawberries, stone fruits, tree nuts and conifer trees)	350 lbs/Acre (22 gal/Acre)	10 - 14 days ²
NOTE: ¹ For fields infested with Nutsedge and Malva apply a minimum of 300 lbs/acre (18.9 gal/acre) of MIDAS 50:50. ² If tarpaulins are removed, planting can occur 10 days after application, which includes the minimum 5-day treatment period before tarps are cut plus the minimum of 24 hours of aeration after tarps are cut and before they are removed. Use the longer planting restriction period under conditions of high soil moisture, heavy soils, or rain or persistence of chloropicrin odor in the soil.		

Tarpaulin Cutting and Removal for Broadcast / Flat Fume Applications: Following the completion of the application of MIDAS 50:50, the tarpaulin shall not be cut for a minimum of 5 days (120 hours) following completion of injection to the application block.

If the tarpaulin is removed from the field, removal shall begin no sooner than 24 hours after tarpaulin cutting has been completed (a task which cannot occur until a minimum of 5 days after application, as stated above).

PREPLANT DEEP INJECTION AUGER-PROBE APPLICATION

For Stone Fruit, Tree Nuts, Vines, and Field Grown Ornamental Trees and Shrubs, use 1 - 1.5 lbs of MIDAS 50:50 per injection site, typically to a depth of between 18 to 36 inches below the soil surface, though deeper injections may be made as appropriate. Use 1 injection site per 100 square feet (i.e., one injection site every 10 feet in a standard grid pattern). Planting or replanting of Stone Fruit, Tree Nuts, Vines, and Field Grown Ornamental Trees and Shrubs may begin 14 days after treatment. DO NOT PLANT if the odor of chloropicrin is detectable.

Do not treat more than 230 trees/shrubs/vines per acre per day.

Buffer Zones

- 25 feet if the application rate is less than 100 lbs MIDAS 50:50 per acre.
- 50 feet if application rate is 100 to 249 lbs MIDAS 50:50 per acre, and
- 100 feet if the application rate is 250 to 350 lbs MIDAS 50:50 per acre.

FOOD CROP ROTATION RESTRICTIONS

Food crops other than strawberry, tomatoes and peppers require a 4 month plant back rotation restriction from the date of fumigant application. Crop rotation to non-food crops or non-bearing fruit or nut trees is not restricted.

DATE 10-17-07 (b)	ATTENTION WANDA KOONCE	COMPANY ARYSTA LIFESCIENCE
ITEM DESCRIPTION MIDAS 50:50 (12-page stitched)		

OKAY AS IS: _____
 Signature of Authorized Customer Representative Date

CHANGES: _____
 (Please mark below) Signature of Authorized Customer Representative Date

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in a dry, cool, well-ventilated area under lock and key. When appropriate to prevent tipping, store cylinders upright, secured to a rack or wall. Post as a pesticide storage area.

Handling: Product cylinders shall not be subjected to rough handling or mechanical shock such as dropping, bumping, dragging or sliding. Do not use rope slings, hooks, tongs, or similar devices to unload cylinders. Transport cylinders using hand truck, fork truck or other device to which the cylinder can be firmly secured.

Do not remove valve protection bonnet and safety cap until immediately before use. When cylinder is not in use, close valve by turning clockwise until hand tight, screw safety cap onto valve outlet, and replace protection bonnet.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Return of Containers: This pesticide container, whether full or partially used, is the property of the manufacturer or distributor where it was purchased and must be returned to the distributor of origin. Do not ship containers without safety caps or valve protection bonnets. Containers shall never be refilled by the consumer or used for any other product or purpose.

FOR 24-HOUR CHEMICAL EMERGENCY (spill, leak, fire or accident) ASSISTANCE:
 Call CHEMTREC at 1-800-424-9300

Warranty and Disclaimer Statement

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Arysta LifeScience North America Corporation ("Arysta"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

Arysta warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA, MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES. NO AGENT, REPRESENTATIVE OR EMPLOYEE OF ARYSTA IS AUTHORIZED TO MAKE ANY WARRANTY, GUARANTEE OR REPRESENTATION BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF ARYSTA, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT ARYSTA'S ELECTION, THE REPLACEMENT OF THE PRODUCT.

MIDAS® is a registered trademark of Arysta LifeScience North America Corporation

MATERIAL TO BE ADDED TO JACKET

12A 1-2

REG # 66330-57

Description: Pesticide Notification

check all that apply		
<input type="checkbox"/>	new stamped accepted label	Send to CSC
<input type="checkbox"/>	new CSF	
<input checked="" type="checkbox"/>	notification	

Instructions:

Attach this sheet to the top of **ALL** material sent to the file room (both loose paper and new material in jackets). This sheet will be imaged; a clear description will aid in finding material in the e-jacket. Remove staples from all material. If returning loose paper then hold together with a binder or paper clip. CSFs should be placed in the CSF folder (if returning jacket) or covered with a red CBI sheet (if returning loose paper). Material to be returned to file room should be place in the appropriate bin.

Reviewer's Name: Owen Beeder

Date: Jul 24, 2008

Phone: 308-8P55

Division: RD



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Ms. Becky Rhodes
Product Registration
Arysta Lifescience NA Corporation
15401 Weston Parkway Suite 150
Cary, NC 27513

JUL 24 2008

SUBJECT: Application for Pesticide Notification (PRN 98-10)
Request General Label Change (Comply with FL Regulations) & Precautionary
Statements
EPA Reg. No. 66330-57
Application Dated June 20, 2008

Dear Registrant:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated 6/20/08 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6249 or Owen F. Beeder of my staff at 703-308-8899.

Sincerely,

A handwritten signature in black ink, appearing to read "Linda Arrington".

Linda Arrington
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs



Arysta LifeScience

June 20, 2008

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504C)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Subject: MIDAS@50:50
EPA Reg. No. 66330-57
Notification and Submission of Final Printed Labeling

To Whom It May Concern:

Enclosed, please find two copies of final printed labeling and an Application Form for Pesticide Registration (8570-1) for MIDAS@50:50; EPA Reg. No. 66330-57. This labeling includes all language approved for the "For Sale and Use in Florida Only" label in the agency's letter dated 06/04/08, except for the following changes:

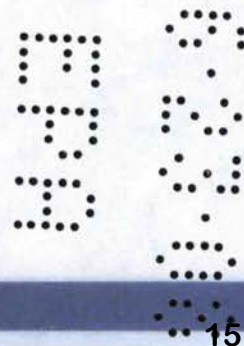
1. The following sentence has been added immediately after the Environmental Hazards section in order to insure the user refers to all precautions and labeling statements relative to tarp removal located in other sections of the label: "(See the GENERAL USE PRECAUTIONS; PROCEDURES PRIOR TO, DURING AND AFTER ALL APPLICATIONS; and the MIDAS 50:50 PRE-PLANT FIELD FUMIGATION METHODS sections for additional precautions and directions regarding tarp removal.)"
2. The term Standard Tarp(s) has replaced the term Standard Film(s) in three places in the label. In the stamped approved label, the term Standard Tarp and the term Standard Film have both been used interchangeably. We have now standardized the terminology.

Thank you for your assistance. Please feel free to contact me if you require additional information.

Best regards,

Becky Rhodes
Head of Regulatory Affairs
856-850-3824

cc: Mary Waller, Product Management Team (21)





United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number Arysta LifeScience North America/66330-57	2. EPA Product Manager Mary Waller	3. Proposed Classification <input type="checkbox"/> None <input checked="" type="checkbox"/> Restricted
4. Company/Product (Name) Arysta LifeScience North America/MIDAS 50:50	PM# 21	
5. Name and Address of Applicant (Include ZIP Code) Arysta LifeScience North America Corporation 15401 Weston Parkway, Suite 150 Cary, NC 27513 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. <u>00124-0001</u> Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to 6/4/08 Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of Minor label changes per PR Notice 98-10. (see attached note)

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal	
* Certification must be submitted				<input type="checkbox"/> Plastic	
If "Yes" Unit Packaging wgt. No. per container		If "Yes" Package wgt. No. per container		<input type="checkbox"/> Glass	
				<input type="checkbox"/> Paper	
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 25, 110, 400 lb		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Becky Rhodes	Title Head of Regulatory Affairs	Telephone No. (Include Area Code) 865-859-3824
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Head of Regulatory Affairs	
4. Typed Name Becky Rhodes	5. Date June 20, 2008	

This Notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling of this product. I understand that it is a violation of 18 U.S.C. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

93
33
17

RESTRICTED USE PESTICIDE

DUE TO ACUTE TOXICITY

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

Midas[®] 50:50

FOR SALE AND USE IN FLORIDA ONLY

Only for Pre-Plant Fumigations of Fields Intended for Commercial Production of Listed Crops and Field-Grown Ornamentals, for the Control of Soil-Borne Pests Including Weed Seeds, Nematodes, Insects, and Diseases

ACTIVE INGREDIENTS:

Iodomethane 49.90%
Chloropicrin 49.75%

OTHER INGREDIENTS: 0.35%

TOTAL: 100.00%

One gallon weighs 15.9 pounds (7.93 pounds Iodomethane and 7.91 pounds Chloropicrin).

KEEP OUT OF REACH OF CHILDREN DANGER / PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail).

FIRST AID

If in eyes	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing.• Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible.• Call a poison control center or doctor for further treatment advice.
If swallowed	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by a poison control center or doctor.• Do not give anything to an unconscious person.

HOT LINE NUMBERS

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE CALL:

1-866-303-6952 or 1-651-632-8946

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage. Symptoms of overexposure may include irritation to eyes, skin, and respiratory system, shortness of breath, nausea, vomiting, dizziness, ataxia, slurred speech, drowsiness, blurred vision, staggering gait and mental imbalance, with probable recovery after period of no exposure. Treatment is symptomatic.

Manufactured for:

Arysta LifeScience North America Corporation
15401 Weston Parkway, Suite 150
Cary, NC 27513

EPA Reg. No. 66330-57

EPA Est. No. 29516-NC-001 (HN)

29516-FL-004 (HF)

35512-FL-1 (HW)

37733-NC-1 (RN)

Hy-Yield Inc.

Hy-Yield Inc.

Howard Fertilizer & Chemical Co., Inc.

Reddick Fumigants of North Carolina, LLC

Superscript corresponds to the production site code

AD060408FL

102525

Label no. 20856FL

Net Contents: _____ LBS



Arysta LifeScience™

18

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

Danger. Corrosive. Causes irreversible eye damage. Corrosive to skin. Causes skin burns. May be fatal if inhaled or swallowed. Harmful if absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breathe vapor. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

SPECIAL NOTE: This product contains chloropicrin, a poisonous liquid or vapor. Inhalation of vapors may be fatal. Chloropicrin is readily identified by smell. Exposure to very low concentrations of vapor will cause irritation of eyes, nose and throat. Continued exposure after irritation is evident or higher concentrations may cause painful irritation to the eyes or temporary blindness. Liquid will cause chemical burns to skin or eyes. Do not get on skin, in eyes, or on clothing. Chloropicrin fumigant has the capacity to cause marked irritation to the upper respiratory tract and is a strong lachrymator (tear producing eye irritant). Low concentrations, below those necessary to cause serious systemic intoxication, are capable of causing severely painful eye irritation, hence will not be voluntarily tolerated. However, the effect may be so powerful that a person may become temporarily blinded and panic-stricken and that in turn may lead to accidents.

AIR CONCENTRATION LEVEL

Air concentrations of chloropicrin are measured with direct reading colorimetric detector devices, such as Kitagawa tubes, certified for chloropicrin at 0.1 to 16 ppm. Persons involved in the application of MIDAS 50:50 or in reentry into treated fields must wear an air-purifying respirator when required by the restrictions given in the PERSONAL PROTECTIVE EQUIPMENT and AGRICULTURAL USE REQUIREMENTS sections below. In case of spills or leaks, additional respiratory protection must be worn as detailed under Spill and Leak Procedures.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers (to include tractor drivers, co-pilots, shovelers, cross ditchers, and tarp monitors) present on the application site and within the buffer zone (see exception for transient travel under heading "Buffer Zone") **must wear:**

- Loose fitting or well ventilated long-sleeved shirt and long pants.
- Shoes plus socks.
- An air-purifying respirator with a 3M Brand No. 60928 cartridge filter, or equivalent (MSHA/NIOSH approved number prefix TC-23C).
- Full face shield or safety glasses with brow, temple and side protection if the air concentration of chloropicrin is less than 0.1 ppm. If the air concentration of chloropicrin is greater than 0.1 ppm, but less than 4 ppm, wear a full face respirator or face-sealing goggles with a half-face respirator. If the chloropicrin concentration is greater than 4 ppm, then see below.
- A full face respirator of one of the following types **if the air concentration of chloropicrin exceeds 4 PPM:** (a) a supplied-air respirator (MSHA/NIOSH approval number prefix TC-19C) OR (b) a self-contained breathing apparatus (SCBA) (MSHA/NIOSH approval number prefix TC-13F).

Other handlers (to include planters, hole punchers, tarp cutters, tarp removers, and tarp remover drivers) present on the application site from the start of the application until 14 days following the end of the application; and within the buffer zone from the start of the application until 48 hours following the end of the application (see exception for transient travel under heading "Buffer Zone") **must wear:**

- Loose fitting or well ventilated long-sleeved shirt and long pants.
- Shoes plus socks.
- Full face shield or safety glasses with brow, temple and side protection. DO NOT wear goggles.

ENGINEERING CONTROL REQUIREMENTS

MIDAS 50:50 must be transferred through connecting hoses, pipes, and/or couplings sufficiently tight to prevent workers or other persons from coming in contact with the liquid.

- All hoses, piping, and tanks used in connection with this product shall be of a type appropriate for use under the pressure and vacuum conditions to be encountered.
- Hoses between any fumigant container and the flow divider must be Teflon® hoses reinforced with stainless steel wire braid or its equivalent.
- External sight gauges, if applicable, shall be equipped with valves so that pipes to sight gauge can be shut off in case of breakage or leakage.
- The mechanical transfer system must be adequate to make necessary measurements of the pesticide being used.
- Shut-off devices must be installed on the exit end of all cylinder connections and at all disconnect points to prevent leakage of product when the transfer is stopped and hose is removed or disconnected.
- The pressure in hoses used to move the product must not exceed the manufacturer's maximum pressure specifications.
- Check equipment to ensure good condition and integrity prior to each use.

User Safety Requirements

- Do not wear jewelry, gloves, goggles, tight clothing or any rubber protective clothing/boots that can trap iodomethane or chloropicrin vapors against your skin. Iodomethane and chloropicrin vapors can be trapped inside clothing and cause skin injury.
- Remove all clothing that comes in contact with liquid material at once.
- Aerate all affected clothing thoroughly outdoors prior to washing with hot water and detergent.

- Discard any clothing or absorbent materials (e.g. leather), that have been drenched or heavily contaminated with this product. Do not reuse them.
- Respirator Requirements: When a respirator is required for use with this product, the following criteria must be met consistent with the Worker Protection Standard: (a) Cartridges or canisters must be replaced when odor or irritation from this product becomes apparent, or after 8 hours of use, whichever is sooner; (b) Respirators must be fit-tested and fit-checked using a program that conforms to OSHA's requirements (described in 29 CFR Part 1910.134); (c) Respirator users must be trained using a program that conforms to OSHA's requirements (described in 29 CFR Part 1910.134); (d) Respirator users must be examined by a qualified medical practitioner to ensure physical ability to safely wear the style of respirator to be worn.
- Follow PPE manufacturer's instructions for cleaning/maintaining protective eyewear and respirators.

USER SAFETY RECOMMENDATIONS

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside, then wash skin thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water or to areas where surface water is present or to inter-tidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash waters. Iodomethane has certain properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

To address this concern for ground water quality, for broadcast applications, tarps must be sliced or removed before noon and only when rainfall is not expected within 12 hours. (Falling temperatures typically found in the late afternoon and evening will not promote dissipation of remaining Iodomethane under the sliced tarp and rainfall may cause remaining Iodomethane under the sliced tarp to leach into ground water.) For raised bed applications, rainfall is not a factor since planting occurs with the tarp in place and slicing or removing of tarps occurs after Iodomethane has dissipated.

See the GENERAL USE PRECAUTIONS; PROCEDURES PRIOR TO, DURING AND AFTER ALL APPLICATIONS; and the MIDAS 50:50 PRE-PLANT FIELD FUMIGATION METHODS sections for additional precautions and directions regarding tarp removal.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat, open flames, or sparking electrical equipment. Do not use application devices containing natural rubber, aluminum, magnesium or their alloys.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use carefully before applying this product.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only Certified Applicators (certified by the state and trained by Arysta) in the proper handling, worker protection, and application of MIDAS 50:50 soil fumigant and handlers under their direct supervision may be present in the treatment area during application. An Arysta trained and state Certified Applicator must be on site and within the line of sight to observe handlers during the application. Handling tasks to be performed under the direct supervision of a Certified Applicator include, but are not limited to the tractor driver, co-pilot, tarp dispenser and shoveler. All such handlers must have appropriate protective equipment, as described in the PERSONAL PROTECTIVE EQUIPMENT section. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

Buffer Zone

The area adjacent to the treated area is referred to as the buffer zone. The buffer zone shall extend from the edge of the treated area in all directions. See Buffer Zone Table. The minimum buffer zone distance shall be 25 feet.

The Certified Applicator supervising the soil fumigation is responsible for the following:

1. Calculating the appropriate size of the buffer zone that must be maintained from the start of the application until 48 hours following the end of the application;
2. Establishing and maintaining the buffer zone from the start of the application until 48 hours following the end of the application. Buffer zones must be on the property under the control of the Certified Applicator and must not include property that is not under the control of the Certified Applicator unless written permission is obtained prior to fumigation, including signature, from responsible parties from all properties that will be included or partially included in the buffer zone. Buffer zones shall not extend onto public roads or areas, or onto any other land for which written consent is not attainable. The Certified Applicator must use an

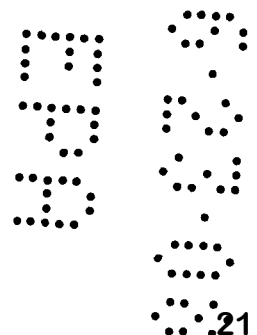


appropriate means to manage and maintain the buffer zone such as posting fumigant warning signs around the perimeter of the buffer zone at potential points of entry, using trained workers to patrol the buffer zone, or other equivalent means. If fumigant warning signs are used, they must be posted from the start of the application until 48 hours following the end of the application and they must include the same warning symbol and statements required for notification warning signs under AGRICULTURAL USE REQUIREMENTS with the exception that signs will indicate "Fumigant Buffer Zone" at the top of the sign and will delete the statement "areas under fumigation." If "Fumigant Buffer Zone" signs are used, the signs must be removed within 3 days of the end of the buffer zone period.

3. Ensuring that unprotected workers and bystanders do not enter the buffer zone from the start of the application until 48 hours following the end of the application. **Exception:** Unprotected workers and bystanders may travel through (but not engage in any activity in) the buffer zone during the application and the 48-hour period following the end of the application, provided their total exposure time in any 24-hour period is 15 minutes or less. However, travel by unprotected workers or bystanders through the fumigated area itself is prohibited during the entire 5-day Entry-Restricted period. Handlers protected with required Personal Protective Equipment (PPE) may work in buffer zones. See the PERSONAL PROTECTIVE EQUIPMENT section.
4. Ensuring application site has a distinctive buffer zone. The buffer zone of the field to be treated cannot overlap the buffer zone of another field treated within the last 48 hours.
5. Ensuring that there are no occupied nursing homes, hospitals, or prisons; and no occupied licensed schools, licensed day care facilities and licensed assisted living facilities (licensed by state or local governments) within 1/4 mile of the fumigated area during the buffer zone period.
6. Documenting how the buffer zone was determined, and providing the information specified below concerning occupied structures located within the buffer zone; and nursing homes, hospitals, or prisons; or licensed schools, licensed day care facilities, or licensed assisted living facilities (licensed by state or local governments) within 1/4 mile of the fumigated area. Records must include buffer zone calculations; diagrams; maps; and the dates and times people left occupied structures within the buffer zone; and when they were allowed to return to such structures. Records must include any consent documentation signed by parties whose properties were outside the control of the Certified Applicator but were included in the buffer zone. Records must also identify nursing homes, hospitals, or prisons; or licensed schools, licensed day care facilities, or licensed assisted living facilities (licensed by state or local governments) within 1/4 mile of the fumigation area, and document how it was determined that such sites would be unoccupied during the application period. These records must be maintained by the Certified Applicator and by the owner/operator of the fumigated site for at least two years following the fumigation and must be made available, upon request to Federal, State, Tribal, and local enforcement personnel.

Determining Buffer Zone Distance

- Determine the size of the buffer zone using the following Buffer Zone Table.
- The size of the buffer zone will be dependant on the following three factors:
 - The number of field acres that are being treated with MIDAS 50:50.
 - The pounds of MIDAS 50:50 that are being applied per treated acre.
 - Buffer zone reduction credits.



Buffer Zone Table

MIDAS 50:50 Application Rate (Lbs per Treated Acre) ⁴	SIZE OF FIELD IN ACRES (Buffer zone distance in feet) ^{1, 2}							
	Up to 5 Acres	6-10 Acres	11-15 Acres	16-20 Acres	21-25 Acres	26-30 Acres	31-35 Acres	36-40 ³ Acres
125	25	40	75	110	130	145	165	180
150	25	45	90	130	155	175	195	215
175	25	50	100	150	175	200	225	250
200	30	60	120	175	205	235	265	290
210	30	60	120	180	210	240	270	300
240	35	70	140	210	245	280	315	345
300	45	90	175	260	305	345	390	430
350	50	100	200	300	350	400	450	500

¹ For rates not listed on this table, use the buffer zone for the next highest rate, or use the following calculation to determine the exact buffer zone:

$$\text{Buffer Zone for Application Rate Not Listed} = \frac{\text{Known Buffer Zone on Table X Application Rate Not Listed}}{\text{Rate of Application for Known Buffer Zone}}$$

² Buffer Zone Reduction Credits:

Reduce buffer zone by 10% for each factor listed below:

- Use of flat fume / broadcast application.
- Use of highly retentive films. Highly retentive films for which credit can be applied must be on an Arysta approved list. Examples of Arysta approved films are Canslit Brand Metalized 1.3 ml, Pliant Blockade® VIF 1.25 ml, and Pliant Metalized 1.0-1.25.
- Application to soils having >3% organic matter. Refer to the USDA or USGS Soil Survey Maps for the treated area that identify the range of organic matter and / or a documented soil survey report that lists range of % organic matter for the treated area. Collection of samples for analysis of soil in the treated area should follow procedures as per USDA's Natural Resource Conservation Services methods. Information on soil sampling can be found at www.soil.usda.gov.

For example, if the Buffer Zone is 50 feet and the application qualifies for a buffer zone reduction credit such as use of highly retentive film, then the buffer zone can be reduced by 10%, i.e. reduced by 5 feet based on the following calculation: 50 ft – (50 ft X 10%) = 45 feet.

If the application qualifies for two buffer zone reduction credits such as use of a highly retentive film and soil with >3% organic matter, then the buffer zone can be reduced by 20%, i.e. reduced by 10 feet based on the following calculation: 50 ft – (50 ft X 20%) = 40 feet.

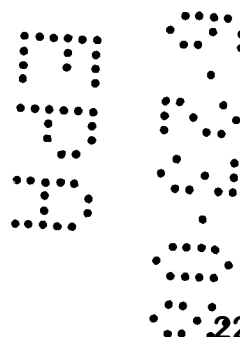
³ Applications are limited to 40 contiguous acres or less per day.

⁴ For raised bed applications, the treated area is the raised bed not the untreated furrows. As an example, if a raised bed field is 50% raised bed (treated) and 50% furrow (untreated), and 350 lbs of MIDAS 50:50 is applied to the field, then the effective application rate to the treated raised bed is 350 lbs per treated acre; and that is the rate that would determine the buffer zone.

Note: Minimum allowable buffer zone is 25 feet regardless of buffer zone reduction credits.

Buffer Zone for Pre-Plant Deep Injection Auger

- 25 feet if the application rate is less than 100 lbs MIDAS 50:50 per acre.
- 50 feet if application rate is 100 to 249 lbs MIDAS 50:50 per acre, and
- 100 feet if the application rate is 250 to 350 lbs MIDAS 50:50 per acre.



AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), restricted entry intervals, and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

Entry Restrictions

Entry into the treated area (including early entry that would otherwise be permitted under the WPS) by any person, other than a correctly trained and equipped handler who is performing a task that is permitted by this labeling, is PROHIBITED from the start of the application until 5 days after application and the air concentration of chloropicrin is measured to be less than 0.1 ppm. Entry during the 5-day restricted entry period is limited to the handler activities of tarp inspection, tarp repair, and flood prevention (including cross ditching).

See the Buffer Zone section of the label for additional Entry Restrictions.

Notification at Entrances to Treated Areas

Notify all workers of the fumigation verbally and by posting warning signs at all likely entrances to the treated area for no less than 5 days after application. The signs must bear the skull and crossbones symbol and state:

- (1) "DANGER/PELIGRO"
- (2) "Areas under fumigation, DO NOT ENTER/NO ENTRE"
- (3) Iodomethane and Chloropicrin Fumigants In Use
- (4) Date and time of fumigation
- (5) MIDAS 50:50
- (6) Name, address, and telephone number of the Certified Applicator in charge of the application.

Post these fumigant warning signs for treated areas instead of the WPS signs for these applications but follow all WPS requirements pertaining to location, legibility, size and timing of posting and removal.

PPE for Reentry during the Entry-Restricted Period

The PPE required for reentry during the entry-restricted period are:

- Loose fitting or well ventilated long-sleeved shirt and long pants.
- Shoes plus socks.
- An air-purifying respirator with a 3M Brand No. 60928 cartridge filter, or equivalent (MSHA/NIOSH approved number prefix TC-23C).
- Full face shield or safety glasses with brow, temple and side protection if the air concentration of chloropicrin is less than 0.1 ppm. If the air concentration of chloropicrin is greater than 0.1 ppm, but less than 4 ppm, wear a full face respirator or face-sealing goggles with a half-face respirator. If the chloropicrin concentration is greater than 4 ppm, then see below.
- A full face respirator of one of the following types **if the air concentration of chloropicrin exceeds 4 PPM**: (a) a supplied-air respirator (MSHA/NIOSH approval number prefix TC-19C) OR (b) a self-contained breathing apparatus (SCBA) (MSHA/NIOSH approval number prefix TC-13F).

GENERAL INFORMATION AND INSTRUCTIONS

This fumigant is a highly hazardous material. All uses of this fumigant are covered under the Worker Protection Standard, and must be conducted in accordance with all of the requirements of the Worker Protection Standard (40 CFR Part 170). It is a restricted use pesticide that must only be used by Certified Applicators, certified by the state and trained by Arysta, in the proper handling, worker protection, and application of MIDAS 50:50 soil fumigant and handlers under their direct supervision. Before using, read the entire label and follow all use directions and precautions. All persons working with this fumigant must be knowledgeable about the hazards and trained in the use of required air-purifying respirator equipment and detector devices, emergency procedures and proper use of the fumigant.

GENERAL USE PRECAUTIONS

- Follow all local government instructions for posting of treated areas and post all treated areas with warning signs.
- Comply with all local ordinances and regulations.
- Do not apply within 1/4 mile of nursing homes, hospitals or prisons; or licensed schools, licensed day care facilities or licensed assisted living facilities (licensed by state or local governments) that will be occupied during the buffer zone period.
- Applications are limited to 40 contiguous acres or less per day.
- Do not apply this product in the presence of ground fog, inversion layers or when the potential for an inversion layer is likely to occur as this may result in product drift outside the treated area. A smoke generator can be used to indicate the presence of an inversion layer if the smoke column does not rise in a vertical pattern. In addition, consult the local weather

forecast in the surrounding region for reports of expected inversion layers the day of application and within the 24 hour period following applications of MIDAS 50:50.

- Never fumigate alone. A minimum of two persons must be present during handling and application of soil fumigants. These persons must be Certified Applicators or handlers under the direct supervision and within the line of sight of a Certified Applicator.
- Certified Applicators are responsible for providing information to all handlers involved with the fumigation about precautions and procedures in the safe handling, worker protection and application of MIDAS 50:50 for soil fumigation.
- Additional instructions must be made available to handlers in the mechanical operation of the tractor and how to safely work with the operator while fumigating.
- Always handle this product in the open, with all handlers positioned "upwind" from the container and/or where there is adequate ventilation.
- Check the fumigation system for leaks or worn out equipment prior to soil injection.
- When fumigating from a tractor, it is required that 5 gallons of water be carried on the tractor and readily available for rinsing and cleaning purposes. An additional 5 gallons of water must be available in the service truck. This water must be potable and in containers marked "Decontamination water not to be used for drinking."
- For broadcast/flat fume applications, keep all pets, livestock and other domestic animals out of the treated areas until tarps have been removed.
- For raised bed applications, keep all pets, livestock and other domestic animals out of the treated areas for 5 days and until the air concentration for chloropicrin is less than 0.1 ppm at the edge of the treated area. Most raised bed applications will not result in tarp removal.
- Tarp removal within 14 days of the start of the application requires a minimum of two trained employees to be present during the operation. Non-handler personnel are prohibited from being present during tarp removal.
- See AGRICULTURAL USE REQUIREMENTS box for details regarding posting and placement of warning signs.
- Do not allow entry by unprotected persons into the fumigated area until the re-entry signs are removed. Such signs must only be removed when the air concentration of chloropicrin is measured to be less than 0.1 ppm at the edge of the treated area and no sooner than 5 days following application. Signs must remain legible during entire posting period.
- Do not cut standard tarps for planting until the air concentration of chloropicrin is measured to be less than 0.1 ppm at the edge of the treated area and no sooner than 5 days following application. In the case of applications using highly retentive films, do not cut tarps until the air concentration of chloropicrin is measured to be less than 0.1 ppm at the edge of the treated area and no sooner than 10 days following application.
- To determine whether aeration is complete, each fumigated site must be tested and shown to contain less than 0.1 ppm chloropicrin in the air space around the treated site as determined by 3 consecutive measurements taken at the down wind edge of the treated site at least 15 minutes apart.

SPILL AND LEAK PROCEDURES

- Cease all operations if any leak develops in the fumigation system.
- Evacuate everyone from the immediate areas of the spill or leak.
- Approach the area from the upwind side. Work upwind to repair leak(s), if possible.
- For entry into the area to correct the problem, trained personnel must wear loose fitting or well ventilated long-sleeved shirt and long pants, shoes plus socks and either (a) a supplied-air respirator (MSHA/NIOSH approval number prefix TC-19C) or (b) a self-contained breathing apparatus (SCBA)(MSHA/NIOSH approval number prefix TC-13F).
- Only correctly trained and PPE-equipped handlers are permitted to enter. Do not permit entry into the spill or leak area by any other person until the concentration of chloropicrin is measured to be less than 0.1 ppm as specified in section above.
- Allow spilled fumigant to evaporate or to absorb onto vermiculite, dry sand, earth, or similar absorbent material. Such material should be disposed of on site or at an approved disposal facility.
- Contaminated soil, water and other cleanup debris may be hazardous waste. Report any spill that exceeds 200 lbs (12.6 gallons of product) to the National Response Center at 1-800-424-8802.

PROCEDURES PRIOR TO, DURING AND AFTER ALL APPLICATIONS

Control of Soil Borne Pests: MIDAS 50:50 controls soil-borne pests including nematodes, insects, weed seeds, and diseases.

MIDAS 50:50 will control the following pests when present in soil at the time of treatment:

Weed Seeds, including broadleaf weeds such as nutsedge, pigweed, broomrape and lambsquarters, and grasses such as bermudagrass, and annual bluegrass. Effectiveness against hard seed weeds, such as mallow, dodder, morning glory, and certain leguminous weeds may be variable.

Plant-parasitic Nematodes, such as root-knot, root lesion (meadow), cyst, citrus, burrowing, false root-knot, lance, spiral, ring, sting, stubby root, dagger, awl, sheath and stung (stylet) nematodes.

Soil-borne Insects, such as wireworms, cutworms, grubs, rootworms, ants and garden symphylans.

Soil-borne Diseases, such as *Verticillium*, *Pythium*, *Rhizoctonia*, *Phytophthora*, and *Fusarium*.

MIDAS 50:50 is not to be used as a preventative treatment for pests that may be introduced after the fumigant has been applied and/or tarps removed. To reduce the potential for the re-

introduction of pests (nematodes, weed seed and disease); avoid the use of irrigation water, transplants or equipment that could carry pests into the planting area. Avoid moving infested soil back into the treated area through cultivation or other means.

Soil Preparation: The soil should be worked to the depth that is desirable for the fumigant to penetrate. Plant refuse should be worked into the soil and allowed enough time to decompose prior to treatment. Little or no plant refuse should be present on soil surface. Prior to application, the soil must be sufficiently moistened to allow seeds to swell (imbibe) in preparation for germination.

Prior to All Applications:

- Ensure that application equipment does not contain components made of natural rubber, aluminum, magnesium or their alloys.
- Soil in the treatment area should be reasonably free of trash and in good tilth prior to treatment.
- Do not apply when soils are too wet or too dry for good agricultural practices or too hot or too cold (<55°F; or >90°F at a depth of 8 inches).

During All Applications:

- Immediately cover treated areas with a plastic tarpaulin for a minimum of 5 days.
- Allow time for complete voiding of material in the buried shanks following closure of the shutoff valve and before removing shanks from the soil.
- In the event that trash is pulled up with the shanks after completing a treatment pass, the trash must be covered with plastic film and the edges of the film buried under at least 4 inches of compacted soil before making the next pass through the field.
- Do not change cylinders when the fumigant system is under pressure. Change cylinders with all cylinder valves in the off position.

Following All Applications:

- To minimize the potential for crop injury, allow the fumigant to dissipate before planting a crop. Seeds may be used as a bioassay to determine if MIDAS 50:50 is present in the soil at concentrations sufficient to cause plant injury. See fumigation tables for planting requirements specific to the different application methods.
- Fumigation of highly acidic soils or those high in organic matter can cause ammonia toxicity to plants and or elevated levels of soluble salts in the soil causing phytotoxicity. Analyze soil following fumigation and fertilize as indicated. Avoid those fertilizers using ammonium salts.
- For broadcast applications, tarps must be sliced or removed before noon and only when rainfall is not expected within 12 hours. (Falling temperatures typically found in the late afternoon and evening will not promote dissipation of remaining Iodomethane under the sliced tarp and rainfall may cause remaining Iodomethane under the sliced tarp to leach into ground water.) For raised bed applications, rainfall is not a factor since planting occurs with the tarp in place and slicing or removing of tarps occurs after Iodomethane has dissipated.

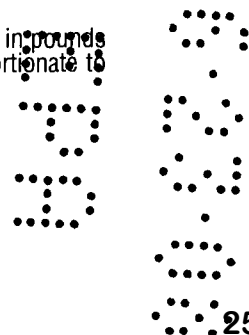
MIDAS 50:50 PRE-PLANT FIELD FUMIGATION METHODS

Fumigation with MIDAS 50:50 shall only be performed in accordance with the following three application techniques: 1) Raised Bed Application, 2) Broadcast/Flat Fume Application, or 3) Deep Injection Auger Probe Application (stone fruit, nut trees, vines, and field-grown ornamentals only). Application methods and rates of application for each of these methods are discussed in detail below.

RAISED BED APPLICATION

- Use tractor mounted chisels spaced no more than 12 Inches apart and at a depth of no less than 6 inches below the soil surface. The treated ground must be sealed using either:
 - **Soil sealing at time of application:** The treated ground must be sealed using closing shoes, roller, compaction roller, cultipacker, or other equivalent equipment that will sufficiently cover chisel marks left after soil injection. The equipment shall cover the chisel marks with soil immediately prior to placement of the tarpaulin being laid down (with fumigant injection) by tarpaulin-laying equipment mounted on the application tractor; or
 - **Bed shaper:** The chisels shall be placed with the injection point under the bed shaper, and the tarpaulin shall be laid down simultaneously (with fumigant injection) by tarpaulin-laying equipment mounted on the application tractor; or
 - **Combination bed former and bed shaper:** The chisels shall be placed between the bed former and the bed shaper. The tractor with the tarpaulin-laying equipment shall immediately follow the application tractor.
- Injection depth of between 6 and 15 inches. The injection depth in preformed beds must not be below the bed furrow.
- Injection spacing of 12 inches or less typically performed with a multiple shank applicator.
- Planting shall not occur for at least 10 days after application (refer to RAISED BED SOIL FUMIGATION TABLE below).

Application Rates for Raised Bed Fumigation: Rates in the table below are given in pounds of MIDAS 50:50 per broadcast acre. The amount of product applied will be proportionate to



the row spacing and width of the raised bed. To calculate the amount of product to be applied, multiply the application rate in lbs MIDAS 50:50/broadcast acre by the appropriate modifier from the Field Rate Modifier Table provided below.

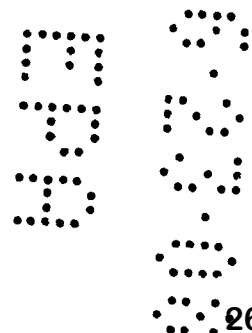
RAISED BED SOIL FUMIGATION TABLE		
Crop	MIDAS 50:50 Per Broadcast Acre ¹	Time Between ² Application and Planting
Field-Grown Ornamentals Peppers Strawberries Tomatoes	Standard Tarp 200 - 350 lbs/Broadcast Acre (12.6 - 22 gal/Broadcast Acre)	10 - 14 days ³
	Highly Retentive Film⁴ 150 - 200 lbs/Broadcast Acre (9.4 - 12.6 gal/Broadcast Acre)	14 - 21 days when using highly retentive film
NOTE: ¹ For fields infested with Nutsedge and Malva, apply a minimum of 300 lbs/acre (18.9 gal/acre) of MIDAS 50:50 with standard tarp and 160 lbs/acre (10.1 gal/acre) with highly retentive film. ² If tarps are cut for removal before planting, aerate a minimum of 24 hours after tarps are cut before removing tarps. Wait at least 5 days after application before cutting standard tarps. Wait at least 10 days after application before cutting highly retentive films. ³ Use the longer planting restriction period under conditions of high soil moisture, heavy soils, or rain. ⁴ Contact your Arysta LifeScience representative for film selection and rate reduction recommendations and approved films.		

Field Rate Modifier Table for Raised Bed Applications

Row Spacing (inches)	Bed Width (inches)	Field Rate Modifier
72	40	0.55
72	36	0.50
72	32	0.44
72	30	0.42
72	28	0.39
66	32	0.48
66	30	0.45
66	28	0.42
66	24	0.36
60	30	0.50
60	28	0.47
48	28	0.58

BROADCAST / FLAT FUME APPLICATION

- Use tractor mounted chisels spaced no more than 12 inches apart and at a depth of 6 to 15 inches below the soil surface.
 - Soil sealing at time of application: The treated ground must be sealed using closing shoes, roller, compaction roller, cultipacker or other equivalent equipment that will sufficiently cover chisel marks left after soil injection. The equipment shall cover the chisel marks with soil immediately prior to placement of the tarpaulin being laid down (with fumigant injection) by tarpaulin-laying equipment mounted on the application tractor.
- Planting shall not occur for at least 10 days after application.
- This product may be applied by broadcast/flat fume application with standard films at rates in the following table:



APPLICATION RATES FOR BROADCAST/FLAT FUME FUMIGATION WITH STANDARD TARPS		
Crop	MIDAS 50:50 Per Acre¹	Time Between Application and Planting²
Field-Grown Ornamentals Peppers Strawberries Tomatoes Turf	200 - 350 lbs/Acre (12.6 - 22 gal/Acre)	10 - 14 days
Stone Fruits (Apricot, Sweet Cherry, Tart Cherry, Nectarine, Peach, Plum, Chickasaw Plum, Damson Plum, Japanese Plum, Plumcot, Fresh Prune) Tree Nuts (Almond, Beech Nut, Brazil Nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (Hazelnut), Hickory Nut, Macadamia Nut (Bush Nut), Pecan, Pistachio, Black Walnut, English Walnut) Vines (Table, Raisin and Wine Grapes)	240 - 350 lbs/Acre (15.1 - 22 gal/Acre)	10 - 14 days
Nurseries (including strawberries, stone fruits, tree nuts and conifer trees)	350 lbs/Acre (22 gal/Acre)	10 - 14 days
NOTE: ¹ For fields infested with Nutsedge and Malva apply a minimum of 300 lbs/acre (18.9 gal/acre) of MIDAS 50:50. ² Wait at least 5 days after application before cutting tarps. Aerate a minimum of 24 hours after tarps are cut before removing tarps. Use the longer planting interval under conditions of high soil moisture, heavy soils, or rain.		

Application Rates for Broadcast/Flat Fume Fumigation with Highly Retentive Films

Contact your Arysta LifeScience North America representative for information on film selection and rate reduction recommendations for highly retentive film. Applications using highly retentive film shall not exceed 200 lbs/Acre (12.6 gal/Acre).

Cutting and Removal of Highly Retentive Films for Broadcast/Flat Fume Applications

- Do not cut highly retentive films until at least 10 days following the application. Wait a minimum of 14 days after application before planting.
- When tarpaulins are removed from the field, removal shall begin no sooner than 24 hours after tarpaulin cutting has been completed (a task which cannot occur until a minimum of 10 days after application, as stated above).
- Planting shall not occur for at least 14 days after application.

PREPLANT DEEP INJECTION AUGER-PROBE APPLICATION

For Stone Fruit, Tree Nuts, Vines, and Field Grown Ornamental Trees and Shrubs, use 1 – 1.5 lbs of MIDAS 50:50 per injection site, typically to a depth of between 18 to 36 inches below the soil surface, though deeper injections may be made as appropriate. Use 1 injection site per 100 square feet (i.e., one injection site every 10 feet in a standard grid pattern). Planting or replanting of Stone Fruit, Tree Nuts, Vines, and Field Grown Ornamental Trees and Shrubs may begin 14 days after treatment. DO NOT PLANT if the odor of chloropicrin is detectable.

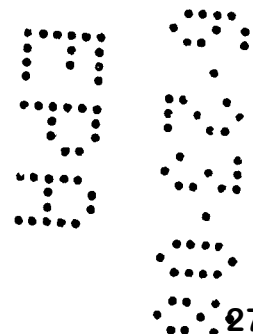
Do not treat more than 230 trees/shrubs/vines per acre per day.

Buffer Zones

- 25 feet if the application rate is less than 100 lbs MIDAS 50:50 per acre.
- 50 feet if application rate is 100 to 249 lbs MIDAS 50:50 per acre, and
- 100 feet if the application rate is 250 to 350 lbs MIDAS 50:50 per acre.

ROTATIONAL CROPS

There are no crop rotation restrictions.



STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in a dry, cool, well-ventilated area under lock and key. When appropriate to prevent tipping, store cylinders upright, secured to a rack or wall. Post as a pesticide storage area.

Handling: Product cylinders shall not be subjected to rough handling or mechanical shock such as dropping, bumping, dragging or sliding. Do not use rope slings, hooks, tongs, or similar devices to unload cylinders. Transport cylinders using hand truck, fork truck or other device to which the cylinder can be firmly secured.

Do not remove valve protection bonnet and safety cap until immediately before use. When cylinder is not in use, close valve by turning clockwise until hand tight, screw safety cap onto valve outlet, and replace protection bonnet.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Return of Containers: This pesticide container, whether full or partially used, is the property of the manufacturer or distributor where it was purchased and must be returned to the distributor of origin. Do not ship containers without safety caps or valve protection bonnets. Containers shall never be refilled by the consumer or used for any other product or purpose.

FOR 24-HOUR CHEMICAL EMERGENCY (spill, leak, fire or accident) ASSISTANCE:
Call CHEMTREC at 1-800-424-9300

Warranty and Disclaimer Statement

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Arysta LifeScience North America Corporation ("Arysta"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

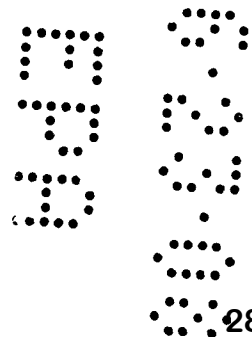
Arysta warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA, MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES. NO AGENT, REPRESENTATIVE OR EMPLOYEE OF ARYSTA IS AUTHORIZED TO MAKE ANY WARRANTY, GUARANTEE OR REPRESENTATION BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF ARYSTA, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT ARYSTA'S ELECTION, THE REPLACEMENT OF THE PRODUCT.

MIDAS® and the Midas logo is registered trademark of Arysta LifeScience North America Corporation
Arysta LifeScience and the Arysta LifeScience logo are registered trademarks of Arysta LifeScience Corporation

For Product Information Call: 1-866-761-9397



Material to be added to a Mini-Jacket
(in the case where an e-Jacket exists)

Reg. No. 66 330-2T

Send to SIG: check box ☐

This material is:

- ☐ New stamped-accepted label
- ☐ New CSF
- ☐ Notification
- ☒ Final Printed Label
- ☐ Other: _____

Instructions: Attach this notice on top of the material. It must be clipped all together and there should be NO STAPLES in the material. Then give the material with this coversheet to staff in the Information Services Center (Room 230).

Reviewer's Name: Jean P. Jones

Phone: 305-7651 Division: 7B

Date: 10-17-06

**RESTRICTED USE PESTICIDE
DUE TO ACUTE TOXICITY**

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

FOR EXPERIMENTAL USE ONLY

Not for sale to any person other than a participant or cooperator of the EPA-approved Experimental Use Program.

MIDAS™ 50:50

For Experimental Pre-Plant Fumigations of Fields Intended for Commercial Production of Listed Crops and Field-Grown Ornamentals, for the Control of Soil-Borne Pests Including Weed Seeds, Nematodes, Insects, and Diseases.

ACTIVE INGREDIENTS:

Iodomethane.....	50.00%
Chloropicrin.....	50.00%
TOTAL:	100.00%

One gallon weighs 15.9 pounds (7.95 pounds Iodomethane and 7.95 pounds Chloropicrin).

KEEP OUT OF REACH OF CHILDREN

DANGER PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

FIRST AID	
If in eyes	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.• Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.• Call a poison control center or doctor for further treatment advice.
If swallowed	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.

NOT REVIEWED
In Accordance with PR Notice 82-2
Based on Draft Labeling Dated

	<ul style="list-style-type: none"> • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything to an unconscious person.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<p align="center">HOT LINE NUMBERS</p> <p>For 24-hour chemical emergency (spill, leak, fire or accident) assistance: Call CHEMTREC at 1-800-424-9300.</p> <p>For 24-hour emergency medical assistance: Call 1-800-228-5635 Ext. 174</p> <p>For the Poison Control Center: Call 1-800-222-1222</p>	
<p>NOTE TO PHYSICIAN</p> <p>Probable mucosal damage may contraindicate the use of gastric lavage. Symptoms of overexposure may include irritation to eyes, skin, and respiratory system, shortness of breath, nausea, vomiting, dizziness, ataxia, slurred speech, drowsiness, blurred vision, staggering gait and mental imbalance, with probable recovery after period of no exposure. Treatment is symptomatic.</p>	

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA EUP No.: 66330 – EUP - 37
EPA Est. No.: ____ - ____

Net Contents _____

Arysta LifeScience North America
15401 Weston Parkway, Suite 150
Cary, NC 27513

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

Danger. Corrosive. Causes irreversible eye damage. Corrosive to skin. Causes skin burns. May be fatal if inhaled or swallowed. Harmful if absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breathe vapor. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

CHLOROPICRIN WARNING: This product contains chloropicrin, a poisonous liquid or vapor. Inhalation of vapors may be fatal. Chloropicrin is readily identified by smell. Exposure to very low concentrations of vapor will cause irritation of eyes, nose and throat. Continued exposure after irritation is evident or higher concentrations may cause painful irritation to the eyes or temporary blindness. Liquid will cause chemical burns to skin or eyes. Do not get on skin, in eyes, or on clothing. Chloropicrin fumigant has the capacity to cause marked irritation to the upper respiratory tract and is a strong lachrymator (tear producing eye irritant). Low concentrations, below those necessary to cause serious systemic intoxication, are capable of causing severely painful eye irritation, hence will not be voluntarily tolerated. However, the effect may be so powerful that a person may become temporarily blinded and panic-stricken and that in turn may lead to accidents.

AIR CONCENTRATION LEVEL

Air concentrations of chloropicrin are measured with direct reading devices, such as Kitagawa tubes, certified for chloropicrin. Persons involved in the Experimental Use application of MIDAS 50:50 or in reentry into buffer zones or treated fields must wear an air-purifying respirator when required by the restrictions given in the "AGRICULTURAL USE REQUIREMENTS" section (below). In case of spills or leaks, additional respiratory protection must be worn as detailed under Spill and Leak Procedures.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Loose fitting or well ventilated long-sleeved shirt and long pants.
- Shoes plus socks.
- An air-purifying respirator with a 3M Brand No. 60928 cartridge filter, or equivalent (MSHA/NIOSH approved number prefix TC-23C).
- When handling the product (e.g. the mixer/loader), full face shield or safety glasses with brow, temple and side protection is required. Do NOT wear goggles.

ENGINEERING CONTROL REQUIREMENTS

MIDAS 50:50 must be transferred through connecting hoses, pipes, and/or couplings sufficiently tight to prevent workers or other persons from coming in contact with the liquid.

- All hoses, piping, and tanks used in connection with this product shall be of a type appropriate for use under the pressure and vacuum conditions to be encountered.
- External sight gauges shall be equipped with valves so that pipes to sight gauge can be shut off in case of breakage or leakage.
- The mechanical transfer system must be adequate to make necessary measurements of the pesticide being used.
- Shut-off devices must be installed on the exit end of all hoses and at all disconnect points to prevent leakage of product when the transfer is stopped and hose is removed or disconnected. A dry coupler that will minimize pesticide leakage must be installed at the disconnect point.
- The pressure in hoses used to move the product must not exceed the manufacturer's maximum pressure specifications.

USER SAFETY REQUIREMENTS

- Do not wear jewelry, gloves, goggles, tight clothing or any rubber protective clothing/boots that can trap iodomethane or chloropicrin vapors against your skin. Iodomethane and chloropicrin vapors can be trapped inside clothing and cause skin injury.
- Remove all clothing that comes in contact with liquid material at once.
- Aerate all affected clothing thoroughly prior to washing with hot water and detergent.
- Discard any clothing or absorbent materials (e.g. leather), that have been drenched or heavily contaminated with this product. Do not reuse them.
- Follow PPE manufacturer's instructions for cleaning / maintaining protective eyewear and respirators.

USER SAFETY RECOMMENDATIONS

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside, then wash skin thoroughly and put on clean clothing. If clothing is drenched or heavily contaminated with this product, discard clothing or absorbent materials (e.g. leather) - do not reuse them.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat, open flames, or sparking electrical equipment. Do not use application devices containing natural rubber, aluminum, magnesium or their alloys.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use carefully before applying.

APPLICATIONS SHALL BE PERFORMED IN ACCORDANCE WITH APPROVED EXPERIMENTAL USE PROGRAM.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only certified applicators and workers under their direct supervision trained in the proper handling, worker protection and application of MIDAS soil fumigant may be present in the treatment area or buffer zone during application. Application tasks that require certification or to be performed under the direct supervision of a certified applicator include, but are not limited to the tractor driver, co-pilot, tarp dispenser, shoveler, and cross-ditcher. All such personnel must have appropriate protective equipment, as described in the PERSONAL PROTECTIVE EQUIPMENT section. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of

agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), restricted entry intervals, and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

Entry Restrictions:

Entry into the treated area (including early entry that would otherwise be permitted under the WPS) by any person - other than a correctly trained and equipped handler who is performing a task that is permitted by this labeling – is PROHIBITED from the start of the application until 48 hours after application and the air concentration of chloropicrin is measured to be less than 0.1 ppm. Non-handler entry is prohibited while tarps are being removed.

Entry Restrictions into the EUP Buffer Zones are defined in the Section "Prohibition of Entry Into Areas Adjacent to Treated Fields (EUP Buffer Zones)" below.

Notification at Entrances to Treated Areas:

Notify all workers of the fumigation verbally and by posting warning signs at entrances to EUP Buffer Zones (EUP Buffer Zones are defined in the next section). The signs must bear the skull and crossbones symbol and state:

- (1) "DANGER/PELIGRO"
- (2) "Areas under fumigation, DO NOT ENTER/NO ENTRE"
- (3) Iodomethane and Chloropicrin Fumigants In Use
- (4) Date and time of fumigation
- (5) Name of this product, and
- (6) Name, address, and telephone number of the applicator.

Post these fumigant warning signs instead of the WPS signs for these applications, but follow all WPS requirements pertaining to location, legibility, size and timing of posting and removal. These fumigant warning signs shall be posted for no less than 48 hours after treatment.

Prohibition of Entry Into Areas Adjacent to Treated Fields (EUP Buffer Zones):

- From the start of the application until 48 hours after the application of MIDAS 50:50 has ended, the supervisors of experimental work under this EUP shall prohibit persons and domestic animals from being present in areas adjacent to the treated field. These adjacent areas are referred to as the EUP Buffer Zones.
- An EUP Buffer zone shall extend from the edge of the treated area in all directions, to a distance calculated per the directions below. The minimum EUP Buffer Zone distance shall be 60 feet from the edge of the treated area.
- Any activity which results in a person being present within the EUP Buffer Zone during the 48 hour period following application is prohibited unless the task is permitted under the WPS. Correctly trained handlers wearing appropriate PPE

and performing a task that is permitted by this labeling may enter inside the Buffer Zone. Examples of activities that are prohibited are work or recreation within a Buffer Zone, or occupation of structures that are within a Buffer Zone while the Buffer Zone is in effect. Examples of activities that are not prohibited are driving past the treated field or occupying a structure that is not within the Buffer Zone.

For this Experimental Use of MIDAS 50:50, the following restrictions apply:

- The areas treated with MIDAS 50:50 shall not exceed 20 field acres (sometimes referred to as "real estate acres") for bedded fumigation applications. For ornamental crops only, broadcast or flat fumigation applications will be allowed on fields of up to two (2) acres. For the purposes of this Experimental Use Permit, applications shall not be made to fields that are within a ½ mile of each other, unless the combined acreage does not exceed the above restriction, and the application timelag between the two applications is at least 24 hours.
- The EUP Buffer Zone shall depend on the field-equivalent rate (Lbs. MIDAS 50:50/Acre) and field size, as follows:
 - The application rate for this EUP program shall be limited to 300 lbs. product per treated acre. In bedded applications, the treated acreage differs from the field acreage because only the rows are treated. As row width and spacing will vary, a "field-equivalent" rate range is possible. For broadcast applications, "field acre", "treated acre" and "real estate acre" are equivalent terms.
 - To calculate the field rate equivalent to the actual raised bed application rate, multiply the treated rate (300 lbs product /A) by the appropriate Field Rate Modifier from the table below:

Field Rate Modifier Table

Row Spacing (inches)	Bed Width (inches)	Field Rate Modifier
72	40	0.55
72	36	0.50
72	32	0.44
72	30	0.42
72	28	0.39
66	32	0.48
66	30	0.45
66	28	0.42
66	24	0.36
60	30	0.50
60	28	0.47
48	28	0.58

For example, the field-equivalent rate for application using 72 inch row spacing and 36 inch bed width is 300 lbs product /Acre x 0.50 = 150 lbs product /Acre.

- To determine the size of the buffer zone required for an EUP application, use the field-equivalent rate calculated above and the field acreage of the application, in the table below.

EUP Buffer Zone Table (feet) – field-equivalent rate*

Field size	Up to 120 lbs product /A	> 120 to 180 lbs product /A
Up to 5 acres	60	115
>5 to 10 acres	60	250
>10 to 20 acres	150	445

*: For broadcast applications on fields destined for ornamental crops (fields that this EUP limits to no larger than 2 acres per site), the buffer zone distance shall be fixed at 50 feet.

PPE For Reentry During the Entry-Restricted Period:

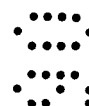
Reentry within the treated area within the 48 hour restricted period is limited to inspection and repair of tarping material allowed by this labeling. Reentry within the EUP Buffer Zone adjacent to the treated area within the 48 hour restricted period is limited to tasks permitted under the WPS. The PPE required for these tasks are listed in the "Personal Protective Equipment" section of this label's PRECAUTIONARY STATEMENTS.

Precautions for Usage Prior to, During and After Soil Fumigation:

Prior to fumigation:

- Follow all local government instructions for posting of treated areas and post all treated areas with warning signs:
 - The applicator (or supervisor of the application) must placard all entrances to the fumigated area with signs bearing the following:
 - Skull and crossbones symbol.
 - "DANGER/PELIGRO".
 - "Area under fumigation. DO NOT ENTER/NO ENTREE."
 - "Iodomethane and Chloropicrin Fumigants in Use."
 - The date and time of fumigation,
 - Name of this product, and
 - The name, address, and telephone number of the applicator.
- Comply with all local ordinances and regulations.
- Do not apply this product in the presence of ground fog, inversion layers or when the potential for an inversion layer is likely to occur as this may result in product drift outside the treated area. A smoke generator can be used to indicate the presence of an inversion layer if the smoke column does not rise in a vertical pattern. Consult the local weather forecast in the surrounding region for reports of expected inversion layers during application and within the 24 hour period following applications of MIDAS 50:50.
- Never fumigate alone. A minimum of two trained people must be present during handling and application of soil fumigants.

- Certified applicators are responsible for providing all other workers information about precautions and procedures in the safe handling, worker protection and application of MIDAS for soil fumigation. Application tasks include, but are not limited to the tractor driver, co-pilot, tarp dispenser, shoveler, and cross-ditcher.
- Additional instructions must be made available to workers in the mechanical operation of the tractor and how to safely work with the operator while fumigating.
- Always handle this product in the open, with all workers positioned “upwind” from the container and where there is adequate ventilation.
- Check the fumigation system for leaks or worn out equipment prior to soil injection.
- When fumigating from a tractor, it is required that 5 gallons of water be carried on the tractor and readily available for rinsing and cleaning purposes. An additional 5 gallons of water must be available in the service truck. This water must be potable and in containers marked “Decontamination water not to be used for drinking.”
- Soil preparation of the treatment area should be reasonably free of trash and in good tilth prior to soil treatment.
- Do not apply to wet or cold soils (<55°F at a depth of 8 inches).



During Fumigation:

- Immediately cover treated areas with a plastic tarpaulin for a minimum of 5 days.
- Allow time for complete voiding of material in the buried shanks following closure of the shutoff valve and before removing shanks from the soil.
- In the event that trash is pulled up with the shanks after completing a treatment pass, the trash must be covered with plastic film and the edges of the film buried under at least 4 inches of compacted soil before making the next pass through the field.
- Do not change cylinders when the fumigant system is under pressure. Change cylinders with all cylinder valves in the off position.

Following Fumigation:

- Keep all pets, livestock and other domestic animals out of the treated areas until after the tarpaulin has been removed.
- Remove the plastic tarps with a minimum of two trained people present during the operation.
- Do not allow entry by unprotected persons into the fumigated area until the signs are removed. Such signs must only be removed when the air concentration of chloropicrin is measured to be less than 0.1 ppm at the edge of the treated area and no sooner than 48 hours following application. Signs must remain legible during entire posting period.
- To determine whether aeration is complete, each fumigated site must be tested and shown to contain less than 0.1 ppm chloropicrin in the air space around the treated site.
- Fumigation of highly acid soils or those high in organic matter can cause ammonia toxicity to plants and or elevated levels of soluble salts in the soil. Fertilize as indicated from soil analysis following fumigation and avoid those fertilizers using ammonium salts.

Spill and Leak Procedures:

- Cease all operations if any leak develops in the fumigation system.
- Evacuate everyone from the immediate areas of the spill or leak.
- Approach the area from the upwind side. Work upwind, if possible.
- For entry into the area to correct the problem, trained personnel must wear all personal protective equipment required by this label, including either (a) a supplied-air respirator (MSHA/NIOSH approval number prefix TS-19C) OR (b) a self-contained breathing apparatus (SCBA)(MSHA/NIOSH approval number prefix TC-13F).
- Only correctly trained and PPE-equipment handlers are permitted to enter. Do not permit entry into the spill or leak area by any other person until the concentration of chloropicrin is measured to be less than 0.1 ppm.
- Allow spilled fumigant to evaporate or to absorb onto vermiculite, dry sand, earth, or similar absorbent material. Such material should be disposed of on site or at an approved disposal facility.
- Contaminated soil, water and other cleanup debris may be hazardous waste. Report any spill that exceeds 200 lbs (12.6 gallons of product) to the National Response Center (800-424-8802).

General Information and Instructions

This fumigant is a highly hazardous material. It is a restricted use pesticide that must only be used by or under the direct supervision of individuals trained and certified in its proper use. Before using, read the entire label and follow all use directions and precautions. All persons working with this fumigant must be knowledgeable about the hazards and trained in the use of required air-purifying respirator equipment and detector devices, emergency procedures and proper use of the fumigant.

SOIL BORNE PESTS CONTROLLED: MIDAS 50:50 controls soil-borne pests including nematodes, insects, weed seeds, and diseases such as those caused by *Phytophthora*, *Pythium*, *Fusarium*, *Verticillium* and *Rhizoctonia*.

Soil Fumigation using MIDAS 50:50 must be conducted according to directions and conditions of use described in this label. Application of this product will control only those pests present in the soil at time of soil treatment. It is not to be used as a preventative treatment for pests that may be introduced after the fumigant has been applied and/or tarps removed. To reduce the potential for the re-introduction of pests (nematodes, weed seed and disease), avoid the use of irrigation water, transplants or equipment that could carry pests into the planting area. Avoid moving infested soil back into the treated area through cultivation or other means.

SOIL PREPARATION: Prior to the application of soil fumigants, the ground must be sufficiently moist to allow seeds to swell (imbibe) in preparation for germination. The soil should be worked to the depth that is desirable for the fumigant to penetrate. Plant refuse should be worked into the soil and allowed enough time to decompose prior to treatment with soil fumigants.

FIELD FUMIGATION: Apply MIDAS 50:50 by shank fumigation. Use tractor mounted chisels spaced no more than 12 inches apart and at a depth of no less than 6 inches below

the soil surface. The treated ground must be sealed, utilizing a mechanical tarp layer, with a gas-tight plastic tarpaulin immediately following the chisel, as detailed below under "Iodomethane Pre-Plant Field Fumigation Methods". Tarps must remain on the soil for at least 5 days prior to cutting and removal.

PLANTING INTERVAL FOR ALL APPLICATIONS:

- Do not plant for at least 10 days after application of the fumigant. A longer period before planting may be necessary if the soil is wet or cold.
- If tarpaulins are removed, planting can occur 10 days after application, including a minimum of 5 days prior to tarp cutting plus a minimum of 24 hours of aeration after the tarpaulins have been cut.
- If tarpaulins are not to be removed before planting, then planting shall not occur before either:
 - At least 12 days after application, including at least 24 hours after holes have been cut in the tarpaulin to allow for aeration; or
 - At least 14 days after application. In this case, tarpaulins do not need to be cut or aerated prior to planting. However, if this option is chosen, the chloropicrin air concentration below the tarpaulin must be less than 0.1 parts per million before planting begins.

To minimize the potential for crop injury, allow the fumigant to dissipate completely before planting a crop. Seeds may be used as a bioassay to determine if MIDAS 50:50 is present in the soil at concentrations sufficient to cause plant injury. DO NOT PLANT if the odor of the chloropicrin used in MIDAS 50:50 is detectable.

TARPAULIN CUTTING AND REMOVAL:

- Following the completion of the application of MIDAS 50:50 (including, when applicable, the formation of cross ditches), the tarpaulin shall not be cut for a minimum of 5 days (120 hours) following completion of injection to the application block.
 - If the tarpaulin is removed from the field, removal shall begin no sooner than 24 hours after tarpaulin cutting has been completed.

CROP ROTATION RESTRICTIONS

Crops other than strawberry, tomatoes, peppers require a 4 month plant back rotation restriction. Strawberries, fresh market tomatoes and peppers can be planted into treated soil as soon as crop safety can be assured and no sooner than 10 days after treatment. See Planting Interval for specific instructions.

Application by Bed Shank fumigation: Use dosage rates and planting intervals as indicated in the Bedded Pre-Plant Soil Fumigation Table below. Row or bed applications are made at the rate of 300 lbs product per treated acre but the amount will be proportionately less per acre depending upon the row spacing and width of treatment in the row or bed (Refer to the rate modifier table in the AGRICULTURAL USE REQUIREMENTS Section above).

BEDDED PRE-PLANT SOIL FUMIGATION TABLE

CROP	MIDAS 50:50 / Treated Acre*	Time Between Application and Planting**
Strawberry Tomato Pepper Field-Grown Ornamentals	300 lbs/Treated Acre (18.9 gal/Treated Acre)	10 – 14 days

* For raised bed the amount of product applied will be proportionately less per acre depending upon the row spacing and width of treatment in the row or bed.

** Use the longer planting restriction periods under conditions of high soil moisture, heavy soils, or rain.

NOTE: Fumigation of highly acid soils or those high in organic matter can cause ammonia toxicity to the plants and or elevated levels of soluble salts in the soil. Fertilize as indicated from soil analysis following fumigation and avoid those fertilizers using ammonium salts.

Application by Broadcast or Flat fumigation: Use dosage rates and planting intervals as indicated in the Broadcast Pre-Plant Soil Fumigation Table below. Broadcast or Flat fumigation shall be restricted to field-grown ornamentals and field sizes shall not exceed two (2) acres. Refer to the "AGRICULTURAL USE REQUIREMENTS" box for additional restrictions.

BROADCAST PRE-PLANT SOIL FUMIGATION TABLE

CROP	MIDAS 50:50 / Acre	Time Between Application and Planting*
Field-Grown Ornamentals	300 lbs / Acre (18.9 gal / Acre)	10 – 14 days

* If odors of fumigant persist beyond the two-week period you may disc, plow or chisel the soil to help aeration in a flat fume (broadcast) fumigation operation. An air-purifying respirator shall be worn during these activities if the airborne concentration of chloropicrin is determined to be 0.1 ppm or greater when measured with a direct reading device such as a Kitagawa tube.

* Use the longer planting restriction periods under conditions of high soil moisture, heavy soils, or rain.

NOTE: Fumigation of highly acid soils or those high in organic matter can cause ammonia toxicity to the plants and or elevated levels of soluble salts in the soil. Fertilize as indicated from soil analysis following fumigation and avoid those fertilizers using ammonium salts.

IODOMETHANE PRE-PLANT FIELD FUMIGATION METHODS:

During the Experimental Use Permit program, fumigations with MIDAS 50:50 shall be performed in accordance with the following application techniques.

Tarpaulin/Bedded

- Use tractor mounted chisels spaced no more than 12 inches apart and at a depth of no less than 6 inches below the soil surface. The treated ground must be sealed using either:

- Closing shoes and compaction roller. The closing shoes shall cover the chisel marks with soil just ahead of the compaction roller, and the tarpaulin shall be laid down simultaneously (with fumigant injection) by tarpaulin-laying equipment mounted on the application tractor; or
 - Bed shaper. The chisels shall be placed with the injection point under the bed shaper, and the tarpaulin shall be laid down simultaneously (with fumigant injection) by tarpaulin-laying equipment mounted on the application tractor; or
 - Combination bed former and bed shaper. The chisels shall be placed between the bed former and the bed shaper. The tractor with the tarpaulin-laying equipment shall immediately follow the application tractor.
- Injection depth of between 6 and 15 inches. The injection depth in preformed beds must not be below the bed furrow.
 - Injection spacing of 12 inches or less, typically performed with a multiple-stank applicator.
 - The tarpaulin shall not be cut for at least 5 days (120 hours) following completion of injection to the application block (See the TARPAULIN CUTTING AND REMOVAL Section above).
 - Planting shall not occur for at least 10 days after application (See the PLANTING INTERVAL FOR ALL APPLICATIONS Section above).

Tarpaulin/Broadcast (ornamental crops only)

- Use tractor mounted chisels spaced no more than 12 inches apart and at a depth of 6 to 15 inches below the soil surface. The treated ground must be sealed using closing shoes and compaction roller. The closing shoes shall cover the chisel marks with soil just ahead of the compaction roller, and the tarpaulin shall be laid down simultaneously (with fumigant injection) by tarpaulin-laying equipment mounted on the application tractor.
- The tarpaulin shall not be cut for a minimum of 5 days (120 hours) following completion of injection to the application block (See the TARPAULIN CUTTING AND REMOVAL Section above).
- Planting shall not occur for at least 10 days after application (See the PLANTING INTERVAL FOR ALL APPLICATIONS Section above).

STORAGE, HANDLING AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in a dry, cool, well-ventilated area under lock and key. When appropriate to prevent tipping, store cylinders upright, secured to a rack or wall. Post as a pesticide storage area.

Handling: Product cylinders should not be subjected to rough handling or mechanical shock such as dropping, bumping, dragging or sliding. Do not use rope slings, hooks, tongs, or similar devices to unload cylinders. Transport cylinders using hand truck, fork truck or other device to which the cylinder can be firmly secured.

Do not remove valve protection bonnet and safety cap until immediately before use. When cylinder is not in use, close valve by turning clockwise until hand tight, screw safety cap onto valve outlet, and replace protection bonnet.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Return of Containers: This pesticide container, whether full or partially used, is the property of the manufacturer or distributor where it was purchased and must be returned to the distributor of origin. Do not ship containers without safety caps or valve protection bonnets. Containers should never be refilled by the consumer or used for any other product or purpose.

CONDITIONS OF SALE

1. Arysta LifeScience North America Corporation warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in accordance with the Directions for Use under normal conditions of use.
2. This warranty does not extend to the use of this product contrary to the label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Arysta LifeScience North America. **ARYSTA LIFESCIENCE NORTH AMERICA DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY. TO THE EXTENT ALLOWED BY LAW, SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE. ARYSTA LIFESCIENCE NORTH AMERICA DOES NOT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTY, GUARANTEE OR REPRESENTATION CONCERNING THIS PRODUCT.**
3. Critical and unforeseeable factors beyond Arysta LifeScience North America's control (including but not limited to weather conditions, crop conditions, presence of other materials, use or application of the product in a manner inconsistent with its labeling, or other influencing factors in the use of this product) prevent Arysta LifeScience North America from eliminating all risks in connection with the use of this product. Such risks include, but are not limited to, damage to plants and crops to which the product is applied, and lack of complete control. Except as stated in 1 above, to the

extent allowed by law, Buyer and User acknowledge and assume all risks and liabilities resulting from handling, storage, and use of this product.

MIDAS is a trademark of Arysta LifeScience North America Corporation

